

Serial No.: 10/552,857

Response to Office Action mailed: January 29, 2009

Amendment Dated: March 30, 2009

**Amendments to the specification:**

Page 23, please amend Table 2 as follows:

**TABLE 2**

**List of primers used for sequencing of the full-length cDNAs of TrCHSa3,  
TrCHSc, TrCHSf, TrCHSh, TrLARa, TrLARb and TrLARc**

gene name	clone ID	sequencing primer	primer sequence (5'>3')	SEQ ID NO
TrCHSa3	05wc1RsB06	05wc1RsB06.f1	AGGAGGCTGCAGTCAAGG	<u>17</u>
		05wc1RsB06.f2	TGCCTGAAATTGAGAAACC	<u>18</u>
		05wc1RsB06.f3	AAAGCTAGCCTTGAAGCC	<u>19</u>
TrCHSc	07wc1TsE12	07wc1TsE12.f1	TCGGACATAACTCATGTGG	<u>20</u>
		07wc1TsE12.f2	TTGGGTTGGAGAATAAGG	<u>21</u>
		07wc1TsE12.r1	TGGACATTTATTGGTTGC	<u>22</u>
		07wc1TsE12.r2	TATCATGTCTGGAAATGC	<u>23</u>
TrCHSf	07wc1UsD07	07wc1UsD07.f1	AGATTGCATCAAAGAATGG	<u>24</u>
		07wc1UsD07.r1	GGTCCAAAAGCCAATCC	<u>25</u>
TrCHSh	13wc2IsG04	13wc2IsG04.f1	TAAGACGAGACATAGTGG	<u>26</u>
		13wc2IsG04.r1	TATTCACTAAGCACATGC	<u>27</u>
TrLARa	05wc1CsA02	05wc1CsA02.f1	TCATTTCTGCAATAGGAGG	<u>28</u>
		05wc1CsA02.r1	ATCCACCTCAGGTGAACC	<u>29</u>
TrLARb	05wc3EsA03	05wc3EsA03.f1	AATAGGAGGCTCTGATGG	<u>30</u>
		05wc3EsA03r1	ATCCACCTCAGGTGAACC	<u>31</u>
TrLARc	07wc1VsF06	07wc1VsF06.f1	AGGCTCTGATGGCTTGC	<u>32</u>
		07wc1VsF06.r1	ATCCACCTCAGGTGAACC	<u>33</u>

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Page 25, please amend Table 3 as follows:

TABLE 3

List of primers used to PCR-amplify the open reading frames

gene name	primer	primer sequence (5'→3')	SEQ ID NO
TrCHSa3	05wc1RsB06f	GAATTCTAGAAGATATGGTGAGTGTAGCTG	<u>34</u>
	05wc1RsB06r	GAATTCTAGAATCACACATCTTATATAGCC	<u>35</u>
TrCHSa3	05wc1RsB06fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTTCTAGA AGATATGGTGAGTGTAGCTG	<u>36</u>
	05wc1RsB06rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAGAA ATCACACATCTTATATAGCC	<u>37</u>
TrCHSc	07wc1TsE12f	GAATTCTAGAAGAAGAAATATGGGAGACGAAGG	<u>38</u>
	07wc1TsE12r	GAATTCTAGAAAGACTTCATGCACACAAGTTCC	<u>39</u>
TrCHSf	07wc1UsD07f	GAATTCTAGATGATTCATTGTTTGTTCCTATAAC	<u>40</u>
	07wc1UsD07r	GAATTCTAGAACATATTCATCTTCCTATCAC	<u>41</u>
TrCHSh	13wc2IsG04f	GAATTCTAGATCCAAATTCTCGTACCTCACC	<u>42</u>
	13wc2IsG04r	GAATTCTAGATAGTTTACATCTCTCGGCAGG	<u>43</u>
TrBANa	05wc2XsG02f	GGATCCTCTAGAGCACTAGTGTGTATAAGTTTCTT GG	<u>44</u>
	05wc2XsG02r	GGATCCTCTAGACCCCTTAGTCTTAAAATACTCG	<u>45</u>
TrLARa	05wc1CsA02fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTAGAA AGCAAAGCAATGGCACC	<u>46</u>
	05wc1CsA02rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAGAT CCACCTCAGGTGAACC	<u>47</u>
TrLARb	05wc3EsA03fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTAGAA AGCAATGGCACCAGCAGC	<u>48</u>
	05wc3EsA03rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAGAT CCACCTCAGGTGAACC	<u>49</u>
TrLARc	07wc1VsF06fG	GGGGACAAGTTTGTACAAAAAAGCAGGCTCTAGAT AAAGCAATGGCACCAGC	<u>50</u>
	07wc1VsF06rG	GGGGACCACTTTGTACAAGAAAGCTGGGTCTAGAT CCACCTCAGGTGAACC	<u>51</u>

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Page 26, please amend lines 7 and 8 as follows:

forward primer 5'-CCACCATGTTTGAAATTTATTATGTGTTTTTTTCCG-3' (SEQ ID NO: 52);

reverse primer 5'-TAATCCCGGGTAAGGGCAGCCCATACAAATGAAGC-3' (SEQ ID NO: 53).

Pages 27-28 please replace table 4 with a new table as follows:

**TABLE 4**

**List of primers used to PCR-amplify plant selectable marker cassettes and the regulatory elements used to control the expression of TrCHSa3, TrCHSc, TrCHSf, TrCHSh, TrBANa, TrLARa, TrLARb and TrLARc genes**

<b>expression cassette</b>	<b>primer</b>	<b>primer sequence (5'&gt;3')</b>	<b><u>SEQ ID NO</u></b>
nos::nptII-nos	forward	ATAATAACCGGTTGATCATGAGCGGAGAATTAAGGG	<u>54</u>
	reverse	ATAATAGCGGCCGCTAGTAACATAGATGACACCGCG	<u>55</u>
35S::aacC1-35S	forward	AATAGCGGCCGCGATTCTAGTACTGGATTTTGG	<u>56</u>
	reverse	AATAACCGGTACCCACGAAGGAGCATCGTGG	<u>57</u>
35S <sup>2</sup> ::rbcS	forward	ATAATAACCGGTGCCCGGGGATCTCCTTTGCC	<u>58</u>
	reverse	ATAATAGCGGCCGCGATGCATGTTGTCAATCAATTGG	<u>59</u>
assu::tob	forward	TAATACCGGTAAATTTATTATGRGTTTTTTTCCG	<u>60</u>
	reverse	TAATGCGGCCGCTAAGGGCAGCCCATACAAATGAAGC	<u>61</u>

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Pages 31 please amend Table 5 as follows:

**TABLE 5**

**List of primers used for Real-time PCR analysis of white clover plants  
transformed with chimeric white clover genes involved in condensed tannin  
biosynthesis**

<b>construct</b>	<b>primer 1 (forward), 5'-&gt;3'</b>	<b>primer 2 (reverse), 5'-&gt;3'</b>	<b><u>SEQ ID NOs</u></b>
pPZP221TrCHSa3	CATTTTCATTTGGAGAGGACACGC	AACACGGTTTGGTGGATTTGC	<u>62 and 63</u>
pPZP221TrCHSc	TTGGAGAGGACACGCTGAAATC	ACAAGTTGGTGAGGGAAATGCC	<u>64 and 65</u>
pPZP221TrCHSf	CATTTTCATTTGGAGAGGACACGC	TCGTTGCCTTTCCCTGAGTAGG	<u>66 and 67</u>
pPZP221TrCHSh	TCATTTGGAGAGGACACGCTG	CGGTCACCATTTTTTTTGTGGAGG	<u>68 and 69</u>
pPZP221TrBANa	TTGGAGAGGACACGCTGAAATC	CAACAAAACCACTGCCACC	<u>70 and 71</u>
pPZP221TrLARA	ATGACGCACAATCCCACTATCC	AGCCTTAGAAGAGAGAAGAGGTCC	<u>72 and 73</u>
pPZP221TrLARb	ATGACGCACAATCCCACTATCC	AGCCTTAGAAGAGAGAAGAGGTCC	<u>74 and 75</u>
pPZP221TrLARc	ATGACGCACAATCCCACTATCC	AGCCTTAGAAGAGAGAAGAGGTCC	<u>76 and 77</u>